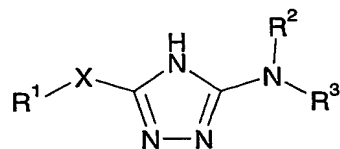


What is claimed is:

1. A method of treating bacterial infections by administering a compound of formula (IA), or a pharmaceutically acceptable salt or solvate thereof



Formula (IA)

wherein,

X is S or O;

R¹ is optionally substituted C₁₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, or C₃₋₇cycloalkyl-C₀₋₆alkyl;

R² is optionally substituted C₂₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, C₃₋₇cycloalkyl-C₀₋₆alkyl;

R³ is H, optionally substituted C₁₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, or C₃₋₇cycloalkyl-C₀₋₆alkyl, C₀₋₆alkyl-C(O)X'AB, C₀₋₆alkyl-S(O)₂X'AB, C₀₋₆alkyl-X'AB, wherein X' is O, S, C or N; A and B are independently H, optionally substituted C₁₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, C₃₋₇cycloalkyl-C₀₋₆alkyl, or A or B are independently absent.

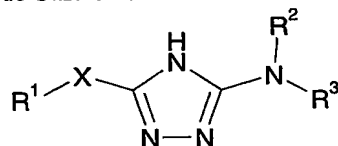
2. The method of claim 1, wherein the compound of formula (IA) is selected from:

3-anilino-5-benzylthio-1,2,4-triazole;
 3-anilino-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
 3-anilino-5-(3,5-dimethyl-benzylthio)-1,2,4-triazole;
 3-(4-methyl-anilino)-5-(pyridin-4-ylmethylthio)-1,2,4-triazole;
 3-(2-methyl-anilino)-5-benzylthio-1,2,4-triazole;
 3-(4-methyl-anilino)-5-(pyridin-2-ylmethylthio)-1,2,4-triazole;
 3-(4-chloro-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
 3-(2-methyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;

3-(4-methoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(4-methoxy-anilino)-5-(pyridin-4-ylmethylthio)-1,2,4-triazole;
3-(4-methoxy-anilino)-5-(2-methyl-benzylthio)-1,2,4-triazole;
3-(3,4-dimethoxy-anilino)-5-(3-methoxy-benzylthio)-1,2,4-triazole;
3-(3,4-dimethoxy-anilino)-5-(pyridin-2-ylmethylthio)-1,2,4-triazole;
[5-(benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(3-methoxybenzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-fluoro-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-methyl-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(3,4-difluoro-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-methoxy-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-methyl-thiazol-4-ylmethylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
3-(2,4-dimethoxy-anilino)-5-(5-methyl-isoxazol-3-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-4-methoxy-anilino)-5-(2-fluoro-benzylthio)-1,2,4-triazole;
3-(2-methyl-4-methoxy-anilino)-5-(5-methyl-isoxazol-3-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-4-methoxy-anilino)-5-(pyridin-2-ylmethylthio)-1,2,4-triazole;
3-(3-methyl-anilino)-5-benzylthio-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(4-fluoro-benzylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(3,4-difluoro-benzylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(2-methyl-2-butenylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(2-fluoro-benzylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-benzylthio-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(2-methyl-benzylthio)-1,2,4-triazole;
3-(2-ethyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(3-methyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2-phenyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2,4-dimethoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
[5-(thiophen-2-ylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
3-(2-methyl-4-methoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(4-hydroxy-anilino)-5-benzylthio-1,2,4-triazole;
3-(2-methoxy-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
3-anilino-5-(5-methyl-thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-anilino)-5-(5-bromo-thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2-methoxy-anilino)-5-(5-chloro-thiophen-2-ylmethylthio)-1,2,4-triazole;

3-(3-methyl-anilino)-5-(3-chloro-thiophen-2-ylmethylthio)-1,2,4-triazole;
 3-anilino-5-(5-chloro-thiophen-2-ylmethylthio)-1,2,4-triazole;
 3-(3-methyl-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
 3-(2-Hydroxy-anilino)-5-benzylthio-1,2,4-triazole;
 3-(3-methoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
 3-(*sec*-butyl-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
 3-(3-methoxy-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
 3-(4-methoxy-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole; and
 3-(5-Benzyl-1*H*-[1,2,4]-triazole-3-yl sulfanyl)-propionic acid methyl ester,
 or a pharmaceutically acceptable salt or solvate thereof.

3. A method for treating a bacterial infection mediated by MetAP in mammals, comprising administering to a mammal in need of such treatment, an effective amount of a compound of formula (IA) or a pharmaceutically acceptable salt or solvate thereof:



Formula (IA)

wherein,

X is S or O;

R¹ is optionally substituted C₁₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, or C₃₋₇cycloalkyl-C₀₋₆alkyl;

R² is optionally substituted C₂₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, C₃₋₇cycloalkyl-C₀₋₆alkyl;

R³ is H, optionally substituted C₁₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, or C₃₋₇cycloalkyl-C₀₋₆alkyl, C₀₋₆alkyl-C(O)X'AB, C₀₋₆alkyl-S(O)₂X'AB, C₀₋₆alkyl-X'AB, wherein X' is O, S, C or N; A and B are independently H, optionally substituted C₁₋₆alkyl, C₃₋₆alkenyl, C₃₋₆alkynyl, optionally substituted Ar-C₀₋₆alkyl, optionally substituted Het-C₀₋₆alkyl, C₃₋₇cycloalkyl-C₀₋₆alkyl, or A or B are independently absent.

4. The method of claim 3 wherein, the compound of formula (IA)

is selected from:

3-anilino-5-benzylthio-1,2,4-triazole;
3-anilino-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-anilino-5-(3,5-dimethyl-benzylthio)-1,2,4-triazole;
3-(4-methyl-anilino)-5-(pyridin-4-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-anilino)-5-benzylthio-1,2,4-triazole;
3-(4-methyl-anilino)-5-(pyridin-2-ylmethylthio)-1,2,4-triazole;
3-(4-chloro-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(4-methoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(4-methoxy-anilino)-5-(pyridin-4-ylmethylthio)-1,2,4-triazole;
3-(4-methoxy-anilino)-5-(2-methyl-benzylthio)-1,2,4-triazole;
3-(3,4-dimethoxy-anilino)-5-(3-methoxy-benzylthio)-1,2,4-triazole;
3-(3,4-dimethoxy-anilino)-5-(pyridin-2-ylmethylthio)-1,2,4-triazole;
[5-(benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(3-methoxybenzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-fluoro-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-methyl-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(3,4-difluoro-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-methoxy-benzylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
[5-(2-methyl-thiazol-4-ylmethylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
3-(2,4-dimethoxy-anilino)-5-(5-methyl-isoxazol-3-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-4-methoxy-anilino)-5-(2-fluoro-benzylthio)-1,2,4-triazole;
3-(2-methyl-4-methoxy-anilino)-5-(5-methyl-isoxazol-3-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-4-methoxy-anilino)-5-(pyridin-2-ylmethylthio)-1,2,4-triazole;
3-(3-methyl-anilino)-5-benzylthio-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(4-fluoro-benzylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(3,4-difluoro-benzylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(2-methyl-2-butenylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(2-fluoro-benzylthio)-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-benzylthio-1,2,4-triazole;
3-(2,6-dimethyl-anilino)-5-(2-methyl-benzylthio)-1,2,4-triazole;
3-(2-ethyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(3-methyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;

3-(2-phenyl-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2,4-dimethoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
[5-(thiophen-2-ylthio)-1*H*-[1,2,4]triazol-3-yl]-pyridin-3-yl-amine;
3-(2-methyl-4-methoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(4-hydroxy-anilino)-5-benzylthio-1,2,4-triazole;
3-(2-methoxy-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
3-anilino-5-(5-methyl-thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2-methyl-anilino)-5-(5-bromo-thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(2-methoxy-anilino)-5-(5-chloro-thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(3-methyl-anilino)-5-(3-chloro-thiophen-2-ylmethylthio)-1,2,4-triazole;
3-anilino-5-(5-chloro-thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(3-methyl-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
3-(2-Hydroxy-anilino)-5-benzylthio-1,2,4-triazole;
3-(3-methoxy-anilino)-5-(thiophen-2-ylmethylthio)-1,2,4-triazole;
3-(*sec*-butyl-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
3-(3-methoxy-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole;
3-(4-methoxy-anilino)-5-(furan-2-ylmethylthio)-1,2,4-triazole; and
3-(5-Benzyl-1*H*-[1,2,4]-triazole-3-yl sulfanyl)-propionic acid methyl ester,
or a pharmaceutically acceptable salt or solvate thereof.